

Claims

- [c1] 1. An electronic device for capturing and displaying images, comprising:
 - a photosensitive chip having a photosensitive area for capturing images, wherein the photosensitive area has a rectangular shape with a first height and a first width, and the aspect ratio of the first width to the first height is smaller than 1; and
 - a display screen for displaying the images captured by the photosensitive chip, wherein the display screen has a rectangular shape with a second height and a second width, and the aspect ratio of the second width to the second height is smaller than 1.
- [c2] 2. The electronic device of claim 1, wherein the aspect ratio obtained by dividing the first width by the first height is substantially equal to the aspect ratio obtained by dividing the second width by the second height.
- [c3] 3. The electronic device of claim 1, wherein the photosensitive chip is a CMOS image sensor.
- [c4] 4. A photosensitive chip for capturing an image having a rectangular shape with a first height and a first width

such that the aspect ratio obtained by dividing the first width by the first height is smaller than 1, characterized in that:

the photosensitive chip has a photosensitive area, wherein the photosensitive area has a rectangular shape with a second height and a second width, and the aspect ratio obtained by dividing the second width by the second height is smaller than 1.

- [c5] 5. The photosensitive chip of claim 4, wherein the photosensitive chip is a CMOS image sensor.
- [c6] 6. A palm-top electronic device for capturing and displaying images, comprising:
 - a photosensitive chip having a photosensitive area for capturing an image; and
 - a display screen suited for showing the entire image captured by the photosensitive chip and the entire image shown from all the display screen, wherein the display screen has a rectangular shape with a first height and a first width such that the aspect ratio obtained by dividing the first width by the first height is smaller than 1.
- [c7] 7. The palm-top electronic device of claim 6, wherein the photosensitive area of the photosensitive chip has a rectangular shape with a second height and a second width and the aspect ratio obtained by dividing the sec-

ond width by the second height is smaller than 1.

- [c8] 8. The palm-top electronic device of claim 7, wherein the aspect ratio obtained by dividing the first width by the first height is substantially equal to the aspect ratio obtained by dividing the second width by the second height.
- [c9] 9. The palm-top electronic device of claim 6, wherein the photosensitive chip is a CMOS image sensor.
- [c10] 10. The palm-top electronic device of claim 6, wherein the palm-top electronic device is a mobile phone or a personal digital assistant (PDA).